

**EDFC FIELD UNIT-TUNDLA-CIVIL/EDFC
TENDER DOCUMENT**

Tender No: TDL-EN-BHU-KRJ-WS-100S

Closing Date/Time: 11/04/2022 15:00

CGM/DFCCIL/Tundla acting for and on behalf of The President of India invites E-Tenders against Tender No **TDL-EN-BHU-KRJ-WS-100S** Closing Date/Time 11/04/2022 15:00 Hrs. Bidders will be able to submit their original/revised bids upto closing date and time only. Manual offers are not allowed against this tender, and any such manual offer received shall be ignored.

Contractors are allowed to make payments against this tender towards tender document cost and earnest money only through only payment modes available on IREPS portal like net banking, debit card, credit card etc. Manual payments through Demand draft, Banker cheque, Deposit receipts, FDR etc. are not allowed.

1. NIT HEADER

Name of Work	Repair to Water Seepage in DFCCIL Side RUB Approach Walls, Drain, Sump and other miscellaneous works of Eastern Dedicated Freight Corridor Corporation of India Limited i.e. in between DFC chainage 509 to 851 between New Bhaupur & New Khurja stations of EDFC-1 section of Eastern Dedicated Freight Corridor Corporation of India Limited.		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Single Packet System
Tender Closing Date Time	11/04/2022 15:00	Date Time Of Uploading Tender	19/03/2022 10:57
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	42030274.74	Tendering Section	CIVIL
Bidding Style	Single Rate for Each Schedule	Bidding Unit	
Earnest Money (Rs.)	840700.00	Validity of Offer (Days)	120
Tender Doc. Cost (Rs.)	0.00	Period of Completion	6 Months
Contract Type	Works	Contract Category	Expenditure
Bidding Start Date	28/03/2022	Are Joint Venture (JV) firms allowed to bid	No
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Capital (Works)

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule A-IR USSOR -2019 Items							11029438.95	Above/ Below/Par
1	131410	156.00	Running Metre	34.20	5335.20	AT Par	5335.20	
	Description:- Cleaning & clearing of side drains including disposing of muck beyond Railway boundary as per instructions of Engineer in-charge to keep drains clean and clear in cuttings etc.							
2	Please see Item Breakup for details.				1398691.84	AT Par	1398691.84	
	Description:- 52070-Grouting of masonry/concrete by injection process duly Sealing of cracks, through nipples complete as per Technical Specification and procedure given in IRBM Para No 209 including necessary admixture. (Cement will be paid extra)							
3	12010	4826.25	cum	321.45	1551398.06	AT Par	1551398.06	
	Description:- Earthwork in filling in embankment , guide bunds, around buried type abutments, bridge gaps, trolley refuges, rain bunds, if provided, platforms etc. with earth, suitable for embankment as per RDSO latest Specifications and guidelines GE: G-14 of Soil Quality Class SQ1, excavated from outside railway boundary entirely arranged by the contractor at his own cost including all leads, lifts, ascents, descents, crossing of nallahs or any other obstructions. The item shall include demarcation and setting out of profile, site clearance, removing of shrubs, roots of vegetations growth, heavy grass, benching of existing slope of old bank, all handling/re-handling, spreading in layers with motor grader, bringing the moisture content to OMC, mechanical compaction to specified density and dressing of bank to final profile as a complete job. The payment shall be made as per finished profile and the rate shall include all costs including taxes, octroi, royalty etc. except for mechanical compaction which shall be paid extra under relevant item. Cut trees shall be property of railways and to be deposited in the railway godown unless specified otherwise in the Special Conditions of Contract.							
	Please see Item Breakup for details.				218124.18	AT Par	218124.18	

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4	Description:- 11010- Earthwork in cutting (classified) in formation, trolley refuges, side drains, level crossing approaches, platforms, catch water drains, diversion of nallah & finishing to required dimension and slopes to obtain a neat appearance to standard profile inclusive of all labour, machine & materials and removing & leading all cut spoils either to make spoil dumps beyond 10m from cutting edge or for filling in embankment with leads within 2 km on either side of cutting edge, lifts, ascent, descent, loading, unloading, all taxes / royalty, clearance of site and all incidental charges, bailing & pumping out water, if required, etc. complete as per directions of the Engineer-in-Charge. The work is to be executed as per latest / updated edition of "Guidelines for Earthwork in Railway Projects" issued by RDSO, Lucknow. Cut trees shall be property of Railways and to be deposited in the railway godown unless specified otherwise in the Special Conditions of Contract. {Note - (i) All usable earth arising from cut spoils shall be led into bank formation and Unusable spoils shall be dumped / stacked (ii) All hard rock /and boulders not fit for filling will be stacked by the contractor and will be property of the Railways.}					
	Please see Item Breakup for details.		64052.86	AT Par	64052.86	
5	Description:- 22010- Earthwork in excavation by mechanical means(Hydraulic Excavator)/Manual Means for foundations and floors of the bridges, retaining walls etc. including setting out, dressing of sides, ramming of bottom, getting out the excavated material, back filling in layers with approved material and consolidation of the layers by ramming and watering etc. including all lift, disposal of surplus soil upto a lead of 300m, all types of shoring and strutting with all labour and material complete as per drawing and technical specification as directed by Engineer in charge.					
	Please see Item Breakup for details.		4432437.93	AT Par	4432437.93	
6	Description:- 25060-Supply and using Cement at Worksite					
	211230	195.00	Day	716.00	139620.00	AT Par 139620.00
7	Description:- Arranging labour as and when required by the Engineer incharge,for various works under SSE/P.Way, with contractor's T&P, equipments, hand signal flags, etc. as per specifications, special conditions and detailed scope of work as furnished in the tender and as directed by the Engineer incharge. Note ; For the paying quantity, a total of 12 hours duty of a man will be counted as one manday and nothing extra shall be payable for night working. However, in a day, total working hours shall not exceed 12 hours. In case, working hours exceed 12 hours, separate manday shall be counted. Note :- Location shall be identified in advance.100% test check in advance to be done by concerned ADEN as a proof of identification and got signed by him.					
	Please see Item Breakup for details.		1224278.50	AT Par	1224278.50	
8	Description:- 52250-Providing & laying non pressure NP-4 Class RCC pipe with collars, jointing with 1:2 cement and ordinary sand mortar including testing of joints, but excluding earthwork with all labour and material as a complete job. Cement for mortar will be paid separately.(Pipes of 600mm dia and above will be laid using crane/hydra).					
	Please see Item Breakup for details.		42981.77	AT Par	42981.77	
9	Description:- 131580-Painting of Bridge Reference / Boards, Structures etc. along track with enamel paint of approved make with different colours & letters, as directed by Engineer in-charge					
	41390	4.32	MT	89229.73	385472.43	AT Par 385472.43
10	Description:- Supplying fabricating and erecting welded and/or bolted and/or riveted steel work in built up sections, trusses and framed work, staging, racks etc.for Steel Structures other than bridge girders, using RSJ, tees, angles and channels/flats, plates, gussets, round or square bars, cleats, bolts etc., with contractors own steel including cutting, bending, straightening, drilling, riveting, hoisting, fixing, erecting, welding, bolting etc., with Providing stiffeners wherever required as per approved drawing including applying a priming coat of a approved steel primer with all contractor's materials, labour, tools & plants, lead & lift including crossing of tracks if required etc., complete as per specification and as directed by Engineer-in-charge					
	013130	375.00	Sqm	946.33	354873.75	AT Par 354873.75
11	Description:- Shoring with 'Z' section MS sheet piles side by side in all kinds of soil mechanically or manually as per approved drawing with contractor's own arrangement complete in all respects and removal of sheet piles after completion of the work as directed by engineer in-charge {Note - Payment will be made as per actual driven length of pile}					
	Please see Item Breakup for details.		350054.45	AT Par	350054.45	
12	Description:- 25070-Steel reinforcement for R.C.C. work including straightening, cutting, bending,placing in position and binding all complete					
	24010	11.90	cum	3177.63	37813.80	AT Par 37813.80
13	Description:- Providing and laying in position machine batched, machine mixed and machine vibrated Design Mix Cement Concrete of specified grade (Cast in-Situ/Pre-cast) in bottom/top slab, side walls, toe wall and sumps haunch filling head walls or any other component using 20mm graded crushed stone aggregate and coarse sand of approved quality of RCC box of any size including finishing, Admixtures in approved proportions (as per IS:9103), to modify workability & other properties without impairing strength and durability, complete as per drawings and technical specifications as directed by Engineer in charge. Payment for cement, reinforcement and shuttering shall be made extra.					
	Please see Item Breakup for details.		8381.29	AT Par	8381.29	
14						

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TENDER DOCUMENT**

Tender No: TDL-EN-BHU-KRJ-WS-100S

Closing Date/Time: 11/04/2022 15:00

	Description:- 25030-centering and shuttering including strutting, propping etc. and removal of form for:-
15	Please see Item Breakup for details. 815922.89 AT Par 815922.89 Description:- 22030-Providing and laying in position Plain cement concrete of specified Nominal Mix for miscellaneous works like side drains, foundation for OHE masts and other miscellaneous structures excluding the cost of Cement, centering and shuttering - All work up to plinth level :

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule B-DSR Items							13123627.04	Above/ Below/Par
1	Please see Item Breakup for details.			468000.00	AT Par	468000.00		
	Description:- 13.87-White washing with lime to give an even shade :							
2	A	11.90	cum	725.24	8630.36	AT Par	8630.36	
	Description:- 15.1-Demolishing lime concrete manually/ by mechanical means and disposal of material within 50 metres lead as per direction of Engineer in- charge.							
3	Please see Item Breakup for details.			7263661.32	AT Par	7263661.32		
	Description:- 6.2-Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in							
4	Please see Item Breakup for details.			5301322.65	AT Par	5301322.65		
	Description:- 13.8-Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.							
5	Please see Item Breakup for details.			82012.71	AT Par	82012.71		
	Description:- 16.6-Manufacturing, supplying and fixing retro reflective overhead signage boards made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity and encapsulated lens type heat activated retro reflective sheeting conforming to type - III of ASTM-D-4956 01 as approved by Engineer-in-charge, letters, borders etc. as per IRC : 67-2001 in silver white with blue colour back ground and with high intensity grade, pasted on substrate by pressure sensitive adhesive backing which shall be activated by applying pressure conforming to class II of ASTM-D-4956-01 and fixing the same to the plate of structural frame work by means of suitable sized aluminium alloys, rivets or bolts & nuts @ 300 mm centre to centre all along the periphery as well as in two vertical rows along with theft resistant measures, including the cost of painting with two or more coats of epoxy paint in grey colour on the back side of aluminium sheet including appropriate priming coat. The rate includes the cost of rounding off the corners, lowering down the structural frame work from the gantry, fixing and erecting the same in position all complete as per drawings, specification and direction of the engineer-incharge.(Structural frame work including M.S. plate to be provided separately. Rectangular area of the sheet only shall be measured for payment)							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule C-NON SCHEDULE							17877208.75	Above/ Below/Par
1	Please see Item Breakup for details.			39717.30	AT Par	39717.30		
	Description:- NS-1-Cleaning, removing, excavation, suction of floating debris/materials, deposited sludge/silt from under ground sump well. Works Involve disposal of debris, sludge etc from work site to a suitable spot as directed by Engineer incharge. Adequate Safety arrangement for entering deep in sump well has to be carried out by agency.							
2	NS2	5.00	Numbers	180618.29	903091.45	AT Par	903091.45	
	Description:- Provision of Electromagnetic Digital Flow Meter and Aquatic water level controller with GPRS cloud based system at Tube Wells (Complete Items As per specification and instruction of Engineer in Charge)							
3	NS3	4200.00	Kg	4032.00	16934400.00	AT Par	16934400.00	
	Description:- Fixing of nozzles and sockets where heavy leakages are occurring and injecting P. U. Grouting with high intensity P.U. chemicals with the help of high pressure P. U. grouting pumps etc. all complete in good condition. Note:- Payment Shall Be made on the basis of actual weight of consumption. (Complete Work)							

3. ITEM BREAKUP

Schedule	Schedule A-IR USSOR -2019 Items
Item- 2	52070-Grouting of masonry/concrete by injection process duly Sealing of cracks, through nipples complete as per Technical Specification and procedure given in IRBM Para No 209 including necessary admixture. (Cement will be paid extra)

**EDFC FIELD UNIT-TUNDLA-CIVIL/EDFC
TENDER DOCUMENT**

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Closing Date/Time: 11/04/2022 15:00

S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	520752	A Cement Sand Mortar (1:1) Grout with 20% anti-shrinkage compound w.r.t. cement.	Kg	2912.00	480.32	1398691.84
					Total	1398691.84
Item- 4	11010- Earthwork in cutting (classified) in formation, trolley refuges, side drains, level crossing approaches, platforms, catch water drains, diversion of nallah & finishing to required dimension and slopes to obtain a neat appearance to standard profile inclusive of all labour, machine & materials and removing & leading all cut spoils either to make spoil dumps beyond 10m from cutting edge or for filling in embankment with leads within 2 km on either side of cutting edge, lifts, ascent, descent, loading, unloading, all taxes / royalty, clearance of site and all incidental charges, bailing & pumping out water, if required, etc. complete as per directions of the Engineer-in-Charge. The work is to be executed as per latest / updated edition of "Guidelines for Earthwork in Railway Projects" issued by RDSO, Lucknow. Cut trees shall be property of Railways and to be deposited in the railway godown unless specified otherwise in the Special Conditions of Contract. {Note - (i) All usable earth arising from cut spoils shall be led into bank formation and Unusable spoils shall be dumped / stacked (ii) All hard rock /and boulders not fit for filling will be stacked by the contractor and will be property of the Railways.}					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	11011	A- In all Conditions and classification of soil except rock.	cum	1357.00	160.74	218124.18
					Total	218124.18
Item- 5	22010- Earthwork in excavation by mechanical means(Hydraulic Excavator)/Manual Means for foundations and floors of the bridges, retaining walls etc. including setting out, dressing of sides, ramming of bottom, getting out the excavated material, back filling in layers with approved material and consolidation of the layers by ramming and watering etc. including all lift, disposal of surplus soil upto a lead of 300m, all types of shoring and strutting with all labour and material complete as per drawing and technical specification as directed by Engineer in charge.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	22011	A-All kinds of soils	cum	314.00	203.99	64052.86
					Total	64052.86
Item- 6	25060-Supply and using Cement at Worksite					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	25061	A-Ordinary Portland Cement 43 grade	MT	573.95	7722.69	4432437.93
					Total	4432437.93
Item- 8	52250-Providing & laying non pressure NP-4 Class RCC pipe with collars, jointing with 1:2 cement and ordinary sand mortar including testing of joints, but excluding earthwork with all labour and material as a complete job. Cement for mortar will be paid separately.(Pipes of 600mm dia and above will be laid using crane/hydra).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	52251	300 mm dia.	Running Metre	50.00	2151.07	107553.50
2	52257	1800 mm dia.	Running Metre	100.00	11167.25	1116725.00
					Total	1224278.50
Item- 9	131580-Painting of Bridge Reference / Boards, Structures etc. along track with enamel paint of approved make with different colours & letters, as directed by Engineer in-charge					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	131584	HFL, FSL & DL on Bridge Pier / Abutment	Each	13.00	706.09	9179.17
2	131585	Miscellaneous General Boards, Jurisdiction Boards, Structures etc.	Sqm	130.00	260.02	33802.60
					Total	42981.77
Item- 12	25070-Steel reinforcement for R.C.C. work including straightening, cutting, bending,placing in position and binding all complete					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	25072	Thermo-Mechanically Treated bars of grade Fe-500D or more	Kg	4258.57	82.20	350054.45

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						Total	350054.45	
Item- 14	25030-centering and shuttering including strutting, propping etc. and removal of form for:-							
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount		
1	25031	All types of bridge sub-structures, e.g. pier, abutment, wing wall, retaining wall, RCC box type foundations, Abutment cap, Pier Cap, Inspection Platform & Pedestal over Pier cap, Fender wall, Diaphragm wall etc. upto 5m above ground level.	Sqm	11.90	704.31	8381.29		
						Total	8381.29	
Item- 15	22030-Providing and laying in position Plain cement concrete of specified Nominal Mix for miscellaneous works like side drains, foundation for OHE masts and other miscellaneous structures excluding the cost of Cement, centering and shuttering - All work up to plinth level :							
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount		
1	22032	1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	cum	285.19	2860.98	815922.89		
						Total	815922.89	
Schedule	Schedule B-DSR Items							
Item- 1	13.87-White washing with lime to give an even shade :							
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount		
1	13.87.1	Old work (two or more coats)	Sqm	23400.00	20.00	468000.00		
						Total	468000.00	
Item- 3	6.2-Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in							
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount		
1	6.2.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	1107.23	6560.21	7263661.32		
						Total	7263661.32	
Item- 4	13.8-Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.							
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount		
1	13.8.1	1:3 (1 cement: 3 fine sand)	Sqm	11553.75	458.84	5301322.65		
						Total	5301322.65	
Item- 5	16.6-Manufacturing, supplying and fixing retro reflective overhead signage boards made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity and encapsulated lens type heat activated retro reflective sheeting conforming to type - III of ASTM-D-4956 01 as approved by Engineer-in-charge, letters, borders etc. as per IRC : 67-2001 in silver white with blue colour back ground and with high intensity grade, pasted on substrate by pressure sensitive adhesive backing which shall be activated by applying pressure conforming to class II of ASTM-D-4956-01 and fixing the same to the plate of structural frame work by means of suitable sized aluminium alloys, rivets or bolts & nuts @ 300 mm centre to centre all along the periphery as well as in two vertical rows along with theft resistant measures, including the cost of painting with two or more coats of epoxy paint in grey colour on the back side of aluminium sheet including appropriate priming coat. The rate includes the cost of rounding off the corners, lowering down the structural frame work from the gantry, fixing and erecting the same in position all complete as per drawings, specification and direction of the engineer-incharge.(Structural frame work including M.S. plate to be provided separately. Rectangular area of the sheet only shall be measured for payment)							
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount		
1	16.60.1	Overhead informatory road signage	Sqm	13.00	6308.67	82012.71		
						Total	82012.71	
Schedule	Schedule C-NON SCHEDULE							
Item- 1	NS-1-Cleaning, removing, excavation, suction of floating debris/materials, dipositedsludge/silt from under ground sump well. Works Involve disposal of debris, sludge etc from work site to a suitable sport as directed by Engineer incharge. Adequate Safety arrangement for entering deep in sump well has to be carried out by agency.							
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount		

**EDFC FIELD UNIT-TUNDLA-CIVIL/EDFC
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Closing Date/Time: 11/04/2022 15:00

1	1	Sump Well (circular/Square/rectangular) of capacity upto 1 lakh litre	Numbers	3.00	13239.10	39717.30
					Total	39717.30

4. ELIGIBILITY CONDITIONS

Special Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per tender Document	No	No	Allowed (Mandatory)

Special Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As Per Tender Document.	No	No	Allowed (Mandatory)

5. COMPLIANCE

Check Lst

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As Per Tender Document.	No	No	Not Allowed

Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Tender Document	Yes	Yes	Allowed (Mandatory)
2	Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.	No	Yes	Allowed (Optional)

General Instructions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As Per Tender Document.	No	No	Not Allowed

Special Conditions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Tender Document	No	No	Not Allowed

Technical-Compliances

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Tender Document	Yes	Yes	Allowed (Mandatory)

Undertakings

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Tender Document.	No	No	Not Allowed

6. Documents attached with tender

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S.No.	Document Name	Document Description
1	FinalTenderDocument19.03.2022.pdf	Tender Document

This tender complies with Public Procurement Policy (Make in India) Order 2017, dated 15/06/2017, issued by Department of Industrial Promotion and Policy, Ministry of Commerce, circulated vide Railway Board letter no. 2015/RS(G)/779/5 dated 03/08/2017 and 27/12/2017 and amendments/ revisions thereof.

As a Tender Inviting Authority, the undersigned has ensured that the issue of this tender does not violate provisions of GFR regarding procurement through GeM.

Signed By: SUSANTA KUMAR MOHANTY

Designation : DYPM/Engg/TDL